

ABSTRACT OF THE DISCLOSURE

A switching circuit configured to substantially linearly conduct current between a source and a load includes a switching device and a steering circuit. The switching device has a conductive state in which a first portion of the current
5 flows between the source and the load, the conductive state being dependent on the magnitude of the current. The steering circuit has a conductive state in which a second portion of the current flows, such that substantially the entire current is conducted between the source and the load. The switching circuit is particularly
10 suited for use in a magnetic resonance imaging system to conduct gradient current between the gradient amplifiers and the gradient coils.